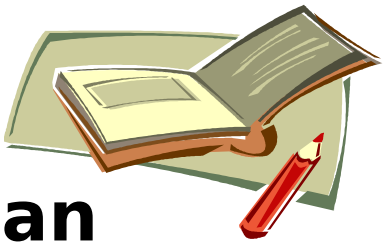
Supporting DoD's RFID Mandate

RFID Requirements and FAQS

Radio Frequency Identification Tags Phase I



- **Phased 3 year Implementation plan**
- **November 14, 2005, DOD contractors must affix passive Radio Frequency Identification (RFID) tags, at the case and palletized unit load levels, when shipping certain items to certain DOD locations.**
  - **New Cumberland (DDSP) & San Joaquin (DDJC)**
- **Class II – Clothing, Individual Equipment, and Tools**
  - **Passive RFID tags (pRFID)**

252.211-7006 RADIO FREQUENCY IDENTIFICATION (February 2007)

Radio Frequency Identification Tags (RFID)
Phase II 2006

- RFID tagging will be required for all DoD manufacturers and suppliers who have new contracts, issued with the appropriate contract clause.
- Class II – Clothing, Individual Equipment, and Tools
- Class VI – Personal Demand Items
- Class VIII – Medical Materials (except pharmaceuticals, biologicals, and reagents)
- The specific DoD locations have been expanded to include most Defense Distribution Depots
  - Bid with RFID price consideration for depot shipments only
  - Self-deleting clause

Generation 2 tags required after March 1, 2007

Radio Frequency Identification Tags Phase III 2007

- **In 2007, selected classes of supply that will require RFID tags on all individual cases, all cases packaged within palletized unit loads, all pallets, and all unit packs for unique identification (UID)**
- **Item UID (IUID) is a globally unique identifier containing data elements which are encoded into data matrix s**
  tangible items
  - **Items >= $5,000**
    Serially managed
    Mission essential

2D Matrix Symbol

2D Matrix codes can be affixed

1. Embedded on the surface of item
2. Through a plate attached to the item
3. Labels

- **WAWF data submission of Unique Identification numbers**
  - **WAWF will form the basis of the DoD UID Registry to be maintained at the DLIS**

DFARS 252.211-7003 IUID marking requirement clause

RFID Exclusions

- **The following are excluded from the requirements of paragraph (b)(1) of this clause:**
  - Shipments of bulk commodities.
- **“Bulk commodities” means the following commodities, when shipped in rail tank cars, tanker trucks, trailers, other bulk wheeled conveyances, or pipelines:**
  - (1) Sand
  - (2) Gravel
  - (3) Bulk liquids (water, chemicals, or petroleum products)
  - (4) Ready-mix concrete or similar construction materials
  - (5) Coal or combustibles such as firewood
  - (6) Agricultural products such as seeds, grains, or animal feed

Passive Tag Data Constructs

"What information is on a tag"

- **"License Plate" has distinct data elements**
  - DOD Identifier
  - Type of package identifier (e.g., pallet)
  - Vendor's CAGE
  - Serialization of unique number

Header	Filter	Government Managed Identifier (CAGE)	Serial Number
8 bits 1100 1110	2 bits	30 bits	24 bits

Header Value identifies the tag number as a DoD construct. It is unique from all other EPCglobal header values.

Case or pallet.

CAGE code is assigned by DLIS and is unique across suppliers.

Serial number is managed by the supplier and ensures uniqueness within the CAGE code.

Placement of RFID Data into to WAWF

- **There are 3 ways a vendor can enter RFID data into WAWF.**
  - Manually (an error prone process) not recommend for pallet level shipments
  - Electronic Data Interchange (EDI)
  - File Transfer Protocol (FTP)
    - **The best method for FTP is using a secure shell called SFTP**
- **The vendor must determine what RFID solution will benefit their business model in order to meet the DOD mandate.**
  - Software and web-based solutions are available
  - Print labels
  - Pre-verified/Pre-burned labels
- **Maturity of RFID printer technology ware)**

RFID provides:
Near Real-time In transit visibility for all classes of supplies and material

Radio Frequency Identification Data

Middleware to WAWF Processes

Print and burn carton RFID label **or** Use pre-burned Tags

Attach carton label & RFID tag

RFID Middleware can capture tag data for vendors and transmit to WAWF

Fixed Reader System

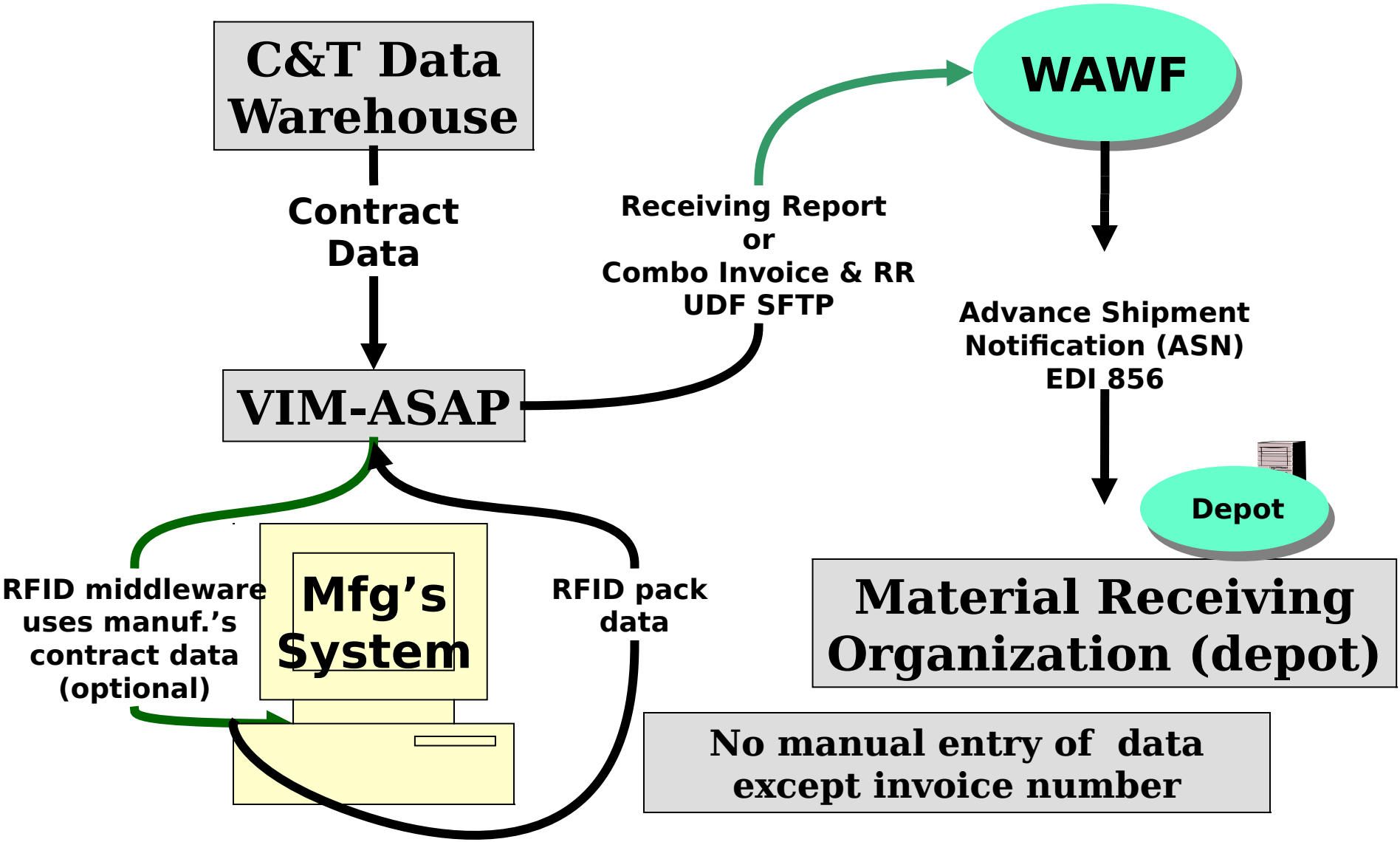
Move carton thru portal **or** Scan bar code on RFID tags

Print and burn RFID pallet label **or** Use pre-burned Tags

Transmit Data to Middleware

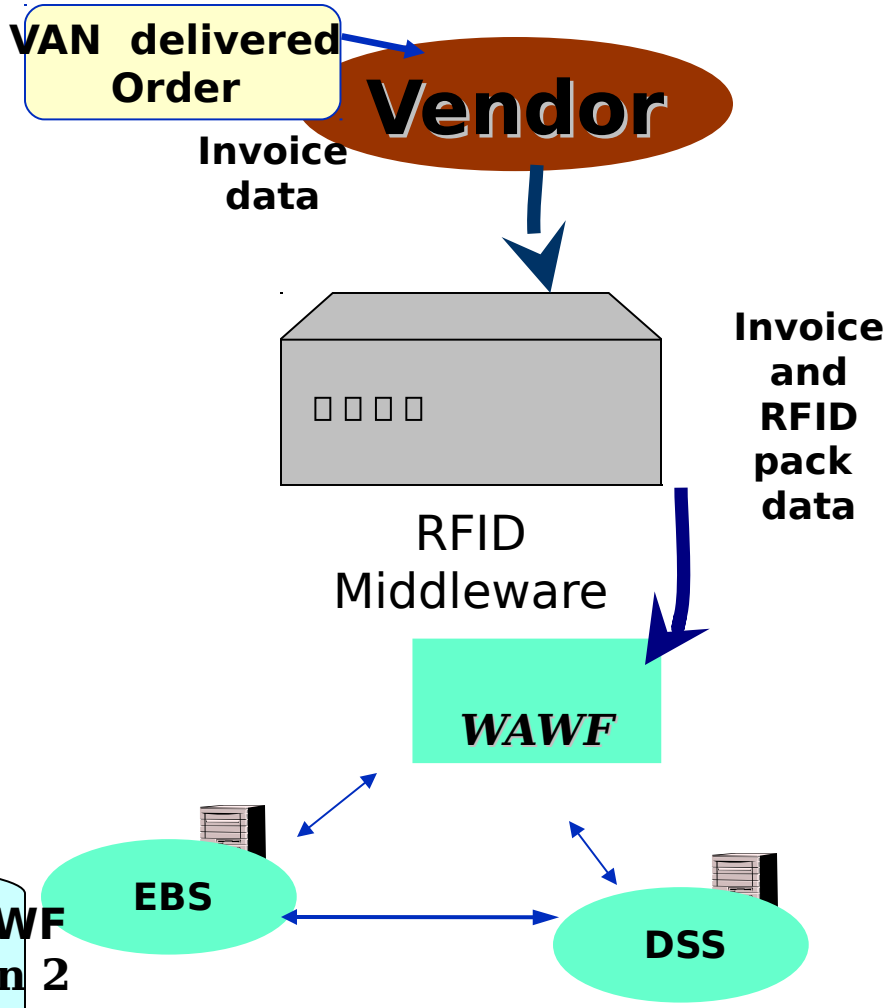
Fixed readers or data collectors gather and correlate the 24 alphanumeric tag number

RFID VIM-ASAP to WAWF
Clothing and Textiles Data Flow



Vendor EDI to Middleware Solution

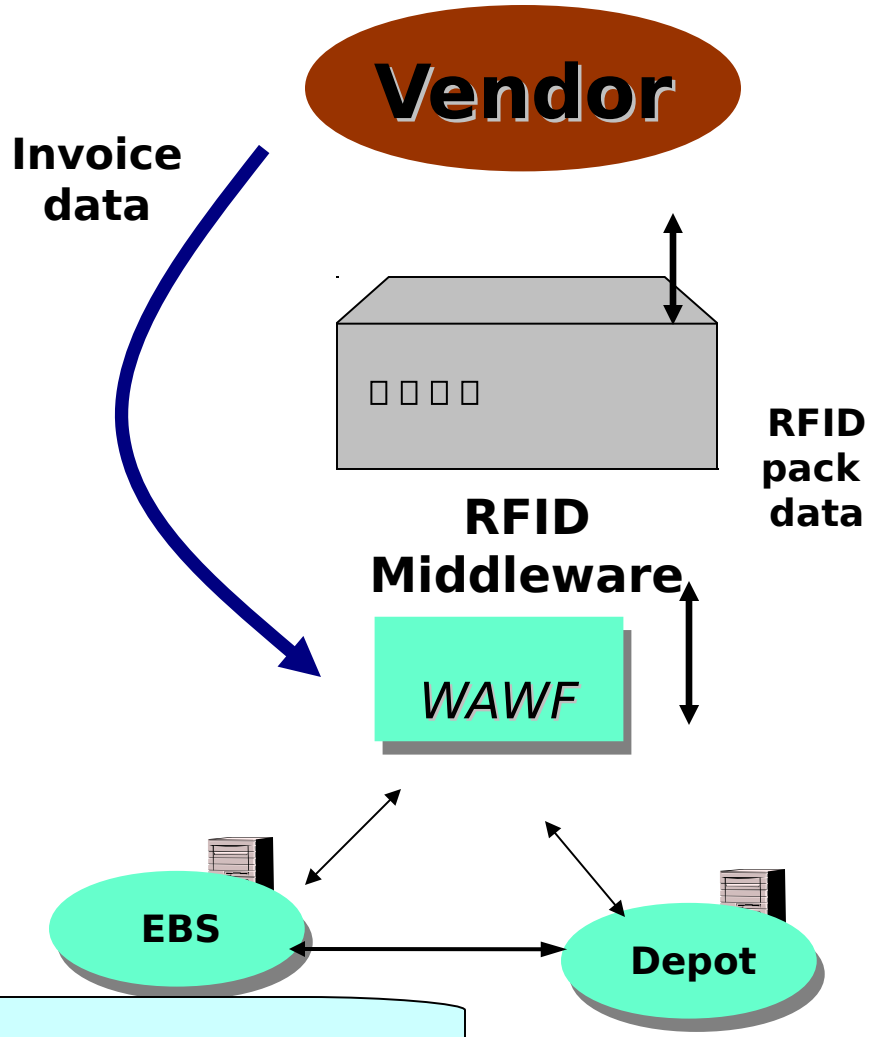
- Vendor receives EDI documents from the VAN.
- Vendor uploads 850 EDI documents that require RFID to Middleware.
- RFID Middleware produces the required RFID data package and RFID tags.
- RFID Middleware provider submits the 'Receiving Report and invoicing data– UDF For SFTP Filing' to WAWF



Vendors must test EDI solution with WAWF
Contact help desk 1-866-618-5988, option 2 and open a ticket

Pack Tab Later Option WAWF only solution

- **Vendor initiates DD-250 in WAWF, selecting the RFID 'Pack Later' option.**
- **Vendor selects appropriate contract data in middleware to produce RFID data package and tags.**
- **RFID middleware 'pushes' the RFID data to WAWF as an 'Pack Report' via SFTP.**
- **WAWF auto packs the DD-250 and moves it forward in the work flow process.**



iddleware is computer software that connects software components or applications

Completed WAWF Pack Tab Data

RFID WAWF data associates CLIN, Quantity and NSN

Pallet tag

Case tag

UID number

WAWF Vendor View
Documents Folder

Item	Type	Payee	Contract Number	Delivery Order	Shipment No	Acceptance Date	Status	Recall RR	Void RR	Pack
1	Receiving Report	0W151	DAAB0797AB608	0015	CTC70599		Inspected			
2	Receiving Report	0W151	DAAB0797AB608	0015	CTC7059A		Submitted	R	V	Add
3	Receiving Report	0W151	DAAB0797AB608	0015	CTC7059B		Submitted	R	V	
4	Combo	0W151	DAAB0797AB608	0015	CTC7059C	2004-05-31	Accepted			
5	Receiving Report	0W151	DAAB0797AB608	0015	CTC7059P		Submitted	R	V	Add
6	Commercial Item Financing	0W151	DAAB090FC0666							
7	Combo	0W151	DAAB0797AB608	0015	CTC7059	2004-05-28	Accepted			

- **Vendor can retrieve documents to complete pack (enter RFID data)**

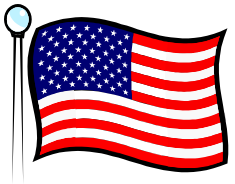
- **The corresponding RFID tag data linked to the RFID tag will not pass to the acceptor without completing pack task**

DIBBS Quoting system

PACE Packaging Requirements

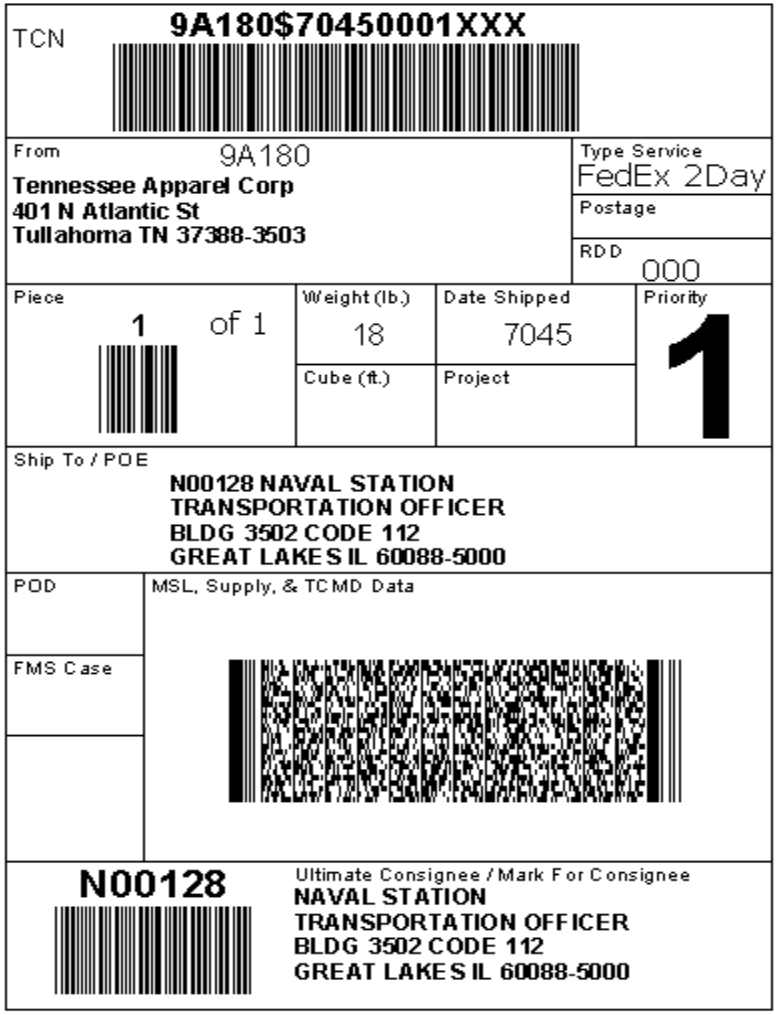
- DIBBS Website **https://www.dibbs.bsm.dla.mil/**
- Automated Procurements have a “V” in the 9th position (SPM1C1O7**V**1100)
- New system logic in DIBBS/PACE allows vendors to reply **“yes”** or “no” when the DIBBS/PACE quotation form asks them the following question: “Meets Packaging and RFID Requirements?”
- Packaging is a material contract requirement and as such vendors must clearly identify any exceptions.
  - A bid that was quoted other than "Bid Without Exception" or didn't use the specified packaging or point of inspection **will not be considered** even if it is the lowest bid.

RFID Interim Waiver Process



- **The passive RFID clause must be included in the contract. (Failure to include a mandatory clause constitutes a deviation.)**
- **KO has authority not to fully enforce a contract requirement. Documentation of the waiver in the form of a letter to the contractor must be included in the contract file.**
- **The Government must obtain consideration. At a minimum, the contractor must provide a "get well" plan with an implementation strategy and completion date.**
- **Routine waivers of the passive RFID requirement will not be acceptable. Only when waiver is in the best interest of the Government.**

Military Shipment Label (MSL)


TCN 9A180$70450001XXX

From 9A180
Tennessee Apparel Corp
401 N Atlantic St
Tullahoma TN 37388-3503

Type Service: FedEx 2Day
Postage:
RDD: 000

Piece: 1 of 1
Weight (lb.): 18
Date Shipped: 7045
Priority: 1
Cube (ft.):
Project:

Ship To / POE
N00128 NAVAL STATION
TRANSPORTATION OFFICER
BLDG 3502 CODE 112
GREAT LAKES IL 60088-5000

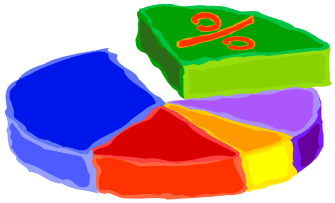
POD:
MSL, Supply, & TCMD Data:
FMS Case:

N00128

Ultimate Consignee / Mark For Consignee
NAVAL STATION
TRANSPORTATION OFFICER
BLDG 3502 CODE 112
GREAT LAKES IL 60088-5000

- **A Military Shipment Label (MSL) must be attached to all separable containers, e.g., each pallet.**
- **The VPVs and recruit training centers will be using the MSL to automate much of their receiving processes.**
- **You may prepare your own MSL, but use Transportation Control Number (TCN) so that the contents of the shipment can be associated with the MSL.**

Variance In Quantity (VIQ)



- **The Variance In Quantity (VIQ) is expected to be shipped with the last shipment, not on a separate shipment.**
  - **Within EBS a positive and negative VIQ value is entered**
  - **Payments will not be made for shipments over the variance**
- **DLA is disallowing shipment of fractional VIQ items**
  - **Preproduction plans with whole variance percentage only (e.g. order qty of 30 x 2% = .6 is not allowed)**
- **Logic within VIM-ASAP will prohibit fractional shipments as of April 9th. E-mail sent to all users via VIM-ASAP**
- **Maximize contract dollars**
  - **Contract Line item example: 10,000 shirts with 2% variance at $20.00 each equals $4,000.00**

Payment Concerns Acceptance Dates

WAWF screen

Item	Type	Vendor (Payee)	Contract Number	Delivery Order	Shipment No	Acceptance Date	Status	Recall RR	Void RR	Pack	Invoice Number	Invoice Received Date
1	Combo	9A180	SP010002D0302	0024	TTT0001	2007-02-01	Processed				14931	2007-02-01 F

MyInvoice screen

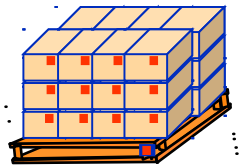
CONTRACT: SP010002D0302
CLIN: 0013
SHIPMENT: TTT0001
E AMOUNT PAID:
RECEIVE DATE: 02/01/07
ACCEPTANCE:
LAST ACTION:
PAYMENT DUE: 03/05/07

Register an login to Myinvoice at

https://myinvoice.csd.disa.mil/

MyInvoice retrieves acceptance dates from EBS

RFID Summary



- **Two Major Requirements for Suppliers**
  - Passive RFID Tagging at the case and pallet level in accordance with the RFID DFARS Clause and the Supplier Implementation Plan
  - Advance Shipment Notice (ASN) via User Defined File/File Transfer Protocol (UDF/FTP), Electronic Data Interchange (EDI) 856, or Web Page Entry
- **Specific Requirements:**
  - Data encoded on tag must be unique.
  - Supplier must ensure the passive tag that he/she affixes to the package is readable.
  - Passive tag is affixed at the appropriate location on the specified level of packaging in accordance with MIL-STD-129P (Section 4.9.2) tag placement specifications.
  - Contractor required to use tag constructs in accordance with the details located at: http://www.dodrfid.org/tagdata.htm.
  - Contractor electronically submits an advance shipment notice in accordance with procedures at http://www.dodrfid.org/asn.htm.
- **A Supplier Guide that contains information that details requirements for compliance is located at www.dodrfid.org/supplierguide.htm.**

Support the Warfighter

Systems and Procedures Division